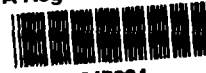


EPA Region 5 Records Ctr.



247884

923339

**LETTER REPORT
FOR
ACID SPILL SITE
a.k.a. WELTMEYER ACID SPILL SITE
HARVEY, COOK COUNTY, ILLINOIS
TDD: S05-9710-010
PAN: 7C1001SIXX**



ecology and environment, inc.

International Specialists in the Environment

**LETTER REPORT
FOR
ACID SPILL SITE
a.k.a. WELTMEYER ACID SPILL SITE
HARVEY, COOK COUNTY, ILLINOIS
TDD: S05-9710-010
PAN: 7C1001SIXX**

February 4, 1998

Prepared for:

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Emergency and Enforcement Response Branch
77 West Jackson Boulevard
Chicago, Illinois 60604**

Prepared by: Steven J. Skare Date: 2/4/98
Steve Skare, START Project Manager

Reviewed by: Mary Jane Ripp Date: 2/4/98
Mary Jane Ripp, START Assistant Program Manager

Approved by: Thomas Kouris Date: 2/4/98
Thomas Kouris, START Program Manager



Ecology and Environment, Inc.

International Specialists in the Environment

33 North Dearborn Street, Chicago, Illinois 60602
Tel. 312/578-9243, Fax: 312/578-9345



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Chicago, Illinois 60602
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February 4, 1998

Ms. Gail Nabasny, Project Officer
Emergency Support Section
U.S. Environmental Protection Agency
77 West Jackson Boulevard
Chicago, IL 60604

Re: Acid Spill Site
a.k.a. Weltmeyer Acid Spill Site
Harvey, Cook County, Illinois
TDD: S05-9710-010
PAN: 7C1001SIXX

Dear Ms. Nabasny:

The United States Environmental Protection Agency (U.S. EPA) tasked the Ecology and Environment, Inc. (E & E), Superfund Technical Assessment and Response Team (START), under Technical Direction Document (TDD) S05-9710-010, to provide support for an emergency response at the Acid Spill site. The site is an inactive truck and automotive repair shop located at 14752 Spaulding Avenue in Harvey, Cook County, Illinois (Attachment A, Figure 1). The site is located in a mixed residential and industrial area and consists of a garage complex, four tankers, and two storage trailers (Attachment A, Figure 2).

On October 22, 1997, an acid spill from a tanker located on the eastern side of the property was reported to the Illinois Environmental Protection Agency (IEPA). The tanker was apparently being salvaged for scrap metal and drain holes were cut into the tanker to drain the acid.

On October 23, 1997, emergency responders from IEPA, U.S. EPA, and START responded to the incident and met with officials from the Harvey Fire and Police Departments. An initial site reconnaissance performed by START, U.S. EPA On-Scene Coordinator (OSC) Kevin Turner, and IEPA representative Ed Osowski found the site to be overgrown with vegetation and in disrepair, with easy access to the public. The acid apparently had pooled on the ground, reacted with the underlying soil, and flowed downgradient under a neighboring storage trailer.

START conducted initial air monitoring of the spill area, the tankers, and inside the building. Results of the air monitoring indicated no levels above background for volatile organic gases, explosive gases, oxygen, carbon monoxide, or hydrogen sulfide.

Samples were collected from three of the four tankers, soil from the spill area, and from two drums and one storage bag located inside the garage complex. Samples T-01, T-03, and T-04 were collected from Tankers #1, #3, and #4, respectively. Sample S-01 was collected from soil east of

Tanker #3. Sample S-02 was collected from a bag inside the east bay of the garage area. Samples S-03 and D-01 were collected from drums inside the west bay of the garage area.

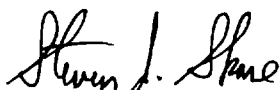
All the samples were analyzed for pH and total metals. In addition, the drum samples were analyzed for total volatile organic compounds and flash point. All samples were delivered to National Environmental Testing, Inc., in Bartlett, Illinois. Analytical results of the pH tests indicate levels of 1.65, 1.83, and 1.72 standard units in the three tanker samples. These results classify the samples as Resource Conservation and Recovery Act (RCRA) hazardous wastes. The sample results also indicated that the liquids in the tankers, the soil from the spill area, the contents of the storage bag, and one of the drums were acids. The remaining drum sample was considered to be flammable. All materials sampled posed a threat to human health and the environment.

On October 24, 1997, the U.S. EPA's Emergency Response Cleanup Services (ERCS) contractor mobilized to the Acid Spill site to initiate the removal of the hazardous wastes found on site. A uniloader was used to excavate the top 4 inches of contaminated soil from the spill area. The contaminated soil was placed in a rolloff box with other debris for disposal. All waste containers, including drums, bags, and small cans, were inventoried and consolidated inside a room in the garage complex. A total of four tanker trucks from Heritage Environmental were used to remove approximately 12,000 gallons of acid from the four tankers. An acid sludge remained in the bottom of the tankers after the liquid was removed. The sludge was placed into 55-gallon polyethylene drums for disposal. A total of 60 drums of acid sludge were containerized. When all wastes were removed from the tankers, the tankers were cut, up using a shears attachment on a excavator, into 6 by 8 feet pieces. The scrap metal was placed into three 20-cubic-yard rolloff boxes for disposal. The bags of green solid inside the garage complex were placed into four 1-cubic-yard boxes for disposal. The sampled drums from the garage complex were placed in overpacks for disposal.

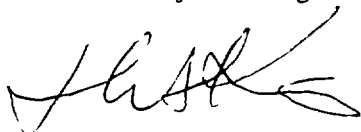
All site work was completed on November 17, 1997. The site was secured and all personnel departed site.

This Letter Report completes the requirements of this TDD. If you have any questions or require additional information, please contact our office at (312) 578-9243.

Sincerely,



Steve Skare
START Project Manager



Thomas Kouris
START Program Manager

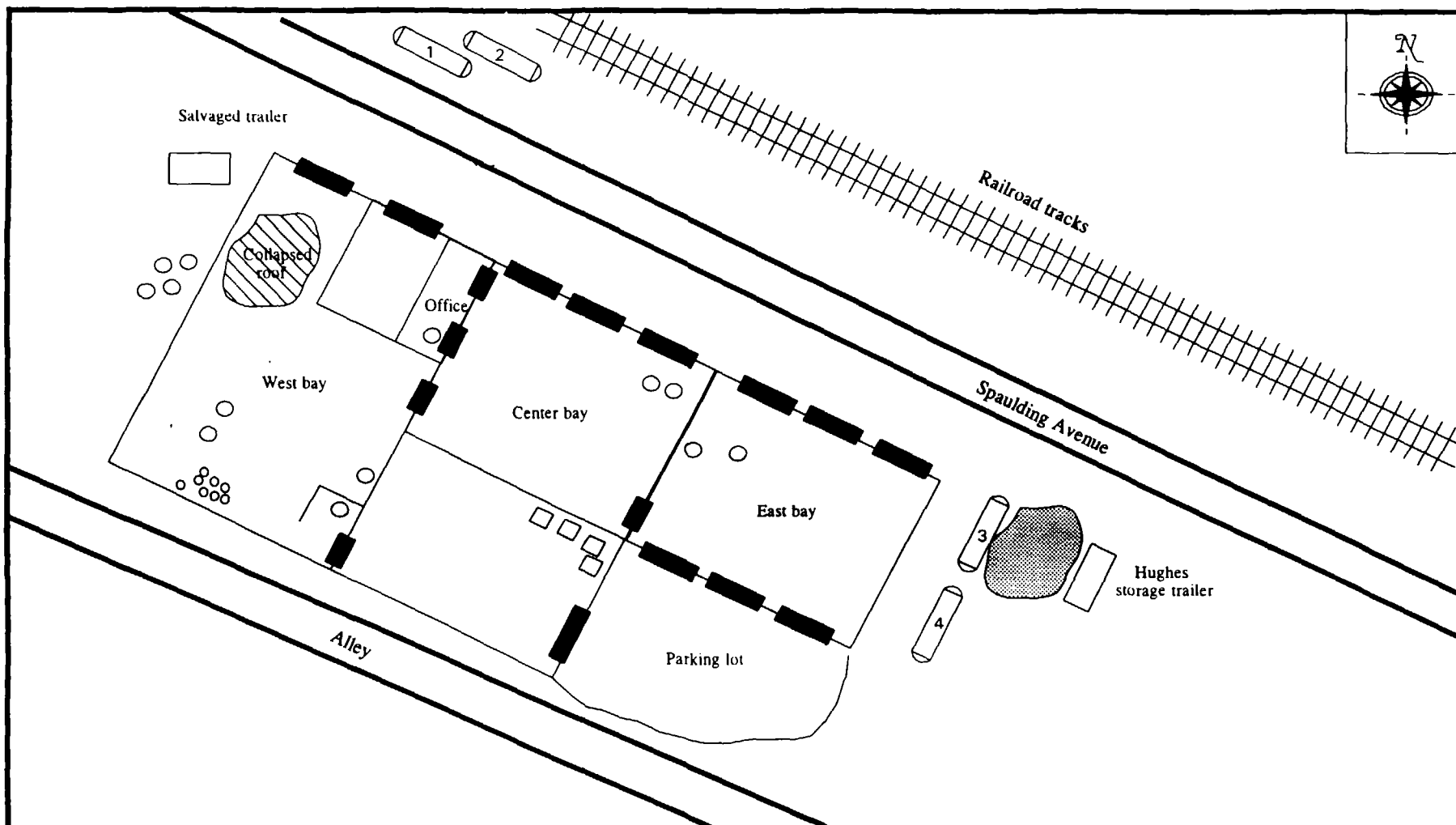
Attachments: A - Figures
B - Photodocumentation
C - Validated Analytical Results
D - Waste Disposal Table

cc: Fred Bartman, U.S. EPA OSC
START TDD File








Attachment A

Figures

Map redacted due to geological
and geophysical information



Legend

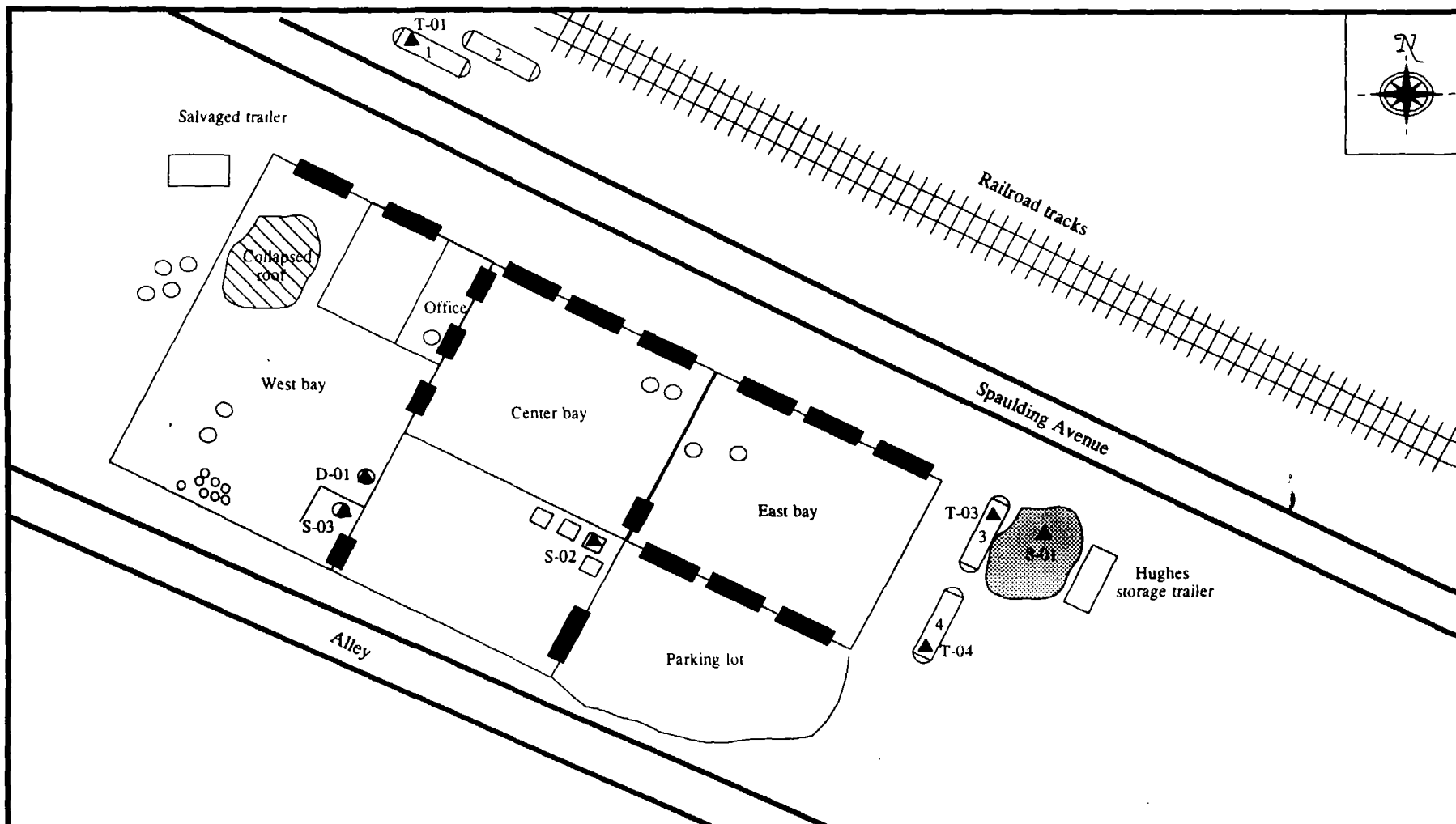
-  Overhead door
-  Door
-  Drum
-  Small container
-  Acid spill area
-  Tanker
-  Bulkift bag w/ green solid



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Region 5 - Superfund Technical Assessment and Response Team
33 North Dearborn, Suite 900, Chicago, Illinois 60602

TITLE	Site Features Map	FIGURE	2
SITE	Weltmeyer Acid Spill	SCALE	Not to Scale
CITY	Harvey	STATE	Illinois
SOURCE	Ecology and Environment, Inc.	TDD	S05-9710-010
		DATE	11/12/97



Legend

- | | | | |
|--|-----------------|--|-----------------|
| | Overhead door | | Door |
| | Drum | | Small container |
| | Acid spill area | | Tanker |
| | Bulk lift bag | | Sample location |



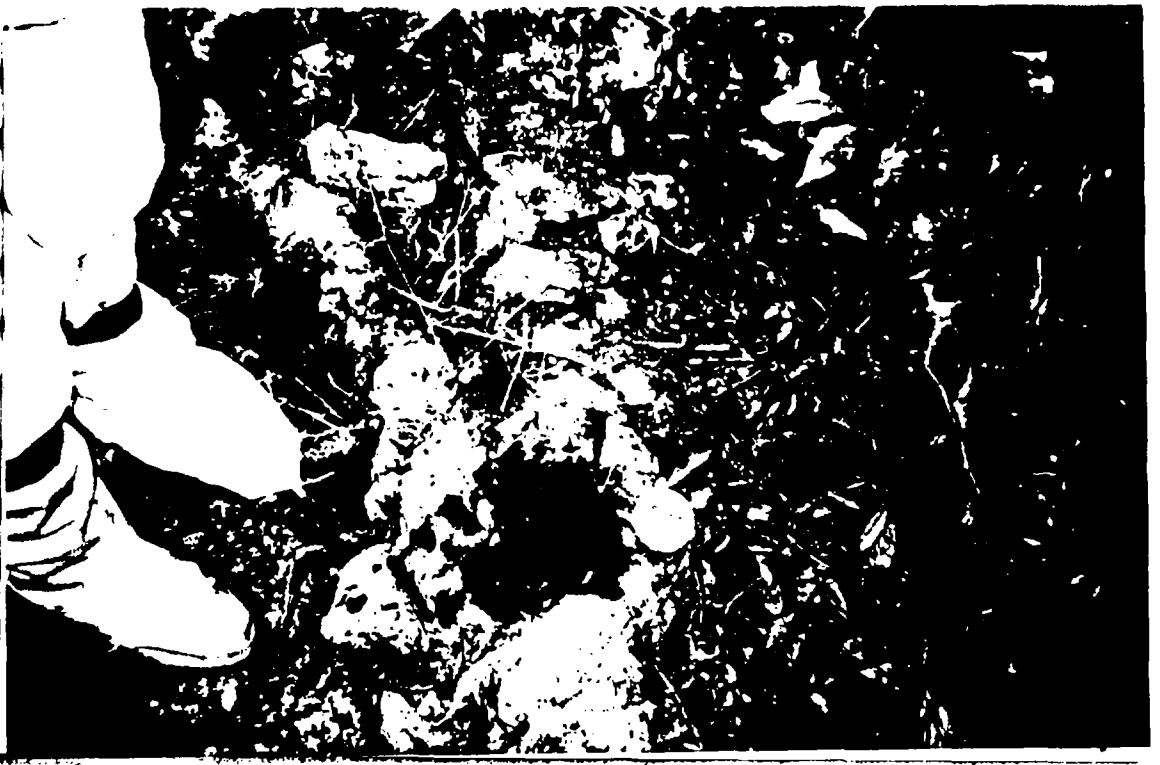
ecology and environment, inc.

Region 5 - Superfund Technical Assessment and Response Team
33 North Dearborn, Suite 900, Chicago, Illinois 60602

TITLE	Sample Location Map	FIGURE	3
SITE	Weltmeyer Acid Spill	SCALE	Not to Scale
CITY	Harvey	STATE	Illinois
SOURCE	Ecology and Environment, Inc.	TDD	S05-9710-010
		DATE	2/4/98

Attachment B

Photodocumentation



SITE: Weltmeyer Acid Spill
LOCATION: Harvey, IL
SUBJECT: Location of sample S-01.

DATE: October 23, 1997
DIRECTION: Down

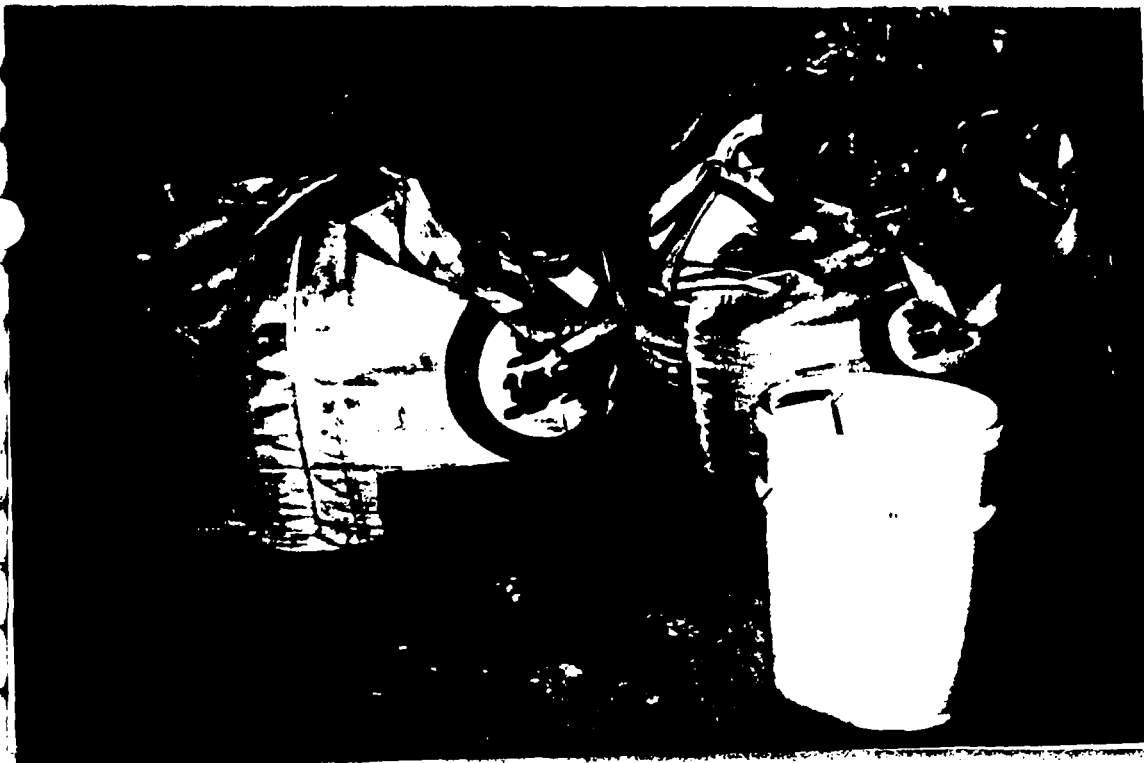
TIME: 1316 Hours
PHOTOGRAPHER: S. Skare



SITE: Weltmeyer Acid Spill
LOCATION: Harvey, IL
SUBJECT: Tanker spill area where sample S-01 was taken.

DATE: October 23, 1997
DIRECTION: South

TIME: 1317 Hours
PHOTOGRAPHER: S. Skare



SITE: Weltmeyer Acid Spill

DATE: October, 23, 1997

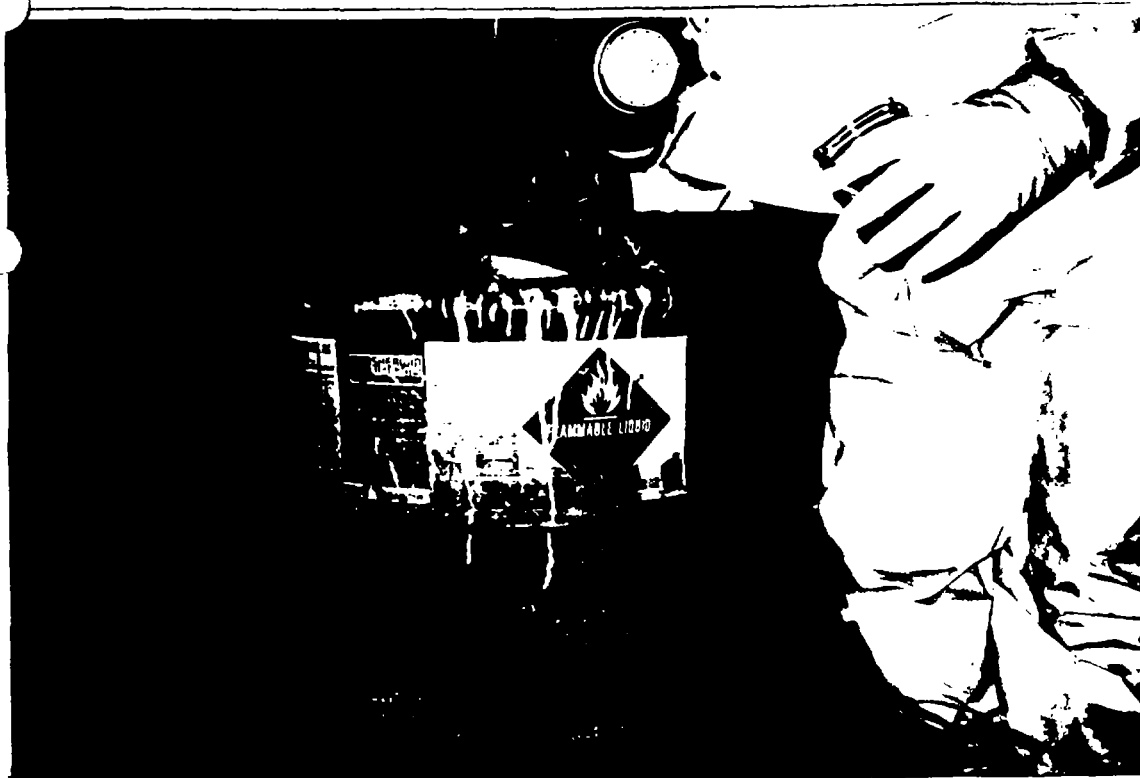
TIME: 1326 Hours

LOCATION: Harvey, IL

DIRECTION: North

PHOTOGRAPHER: S. Skare

SUBJECT: Bags of green solid collected as sample S-02.



SITE: Weltmeyer Acid Spill

DATE: October 23, 1997

TIME: 1350 Hours

LOCATION: Harvey, IL

DIRECTION: East

PHOTOGRAPHER: S. Skare

SUBJECT: View of "SHERWIN WILLIAMS" paint label on drum S-03.



SITE: Weltmeyer Acid Spill

DATE: October 23, 1997

TIME: 1411 Hours

LOCATION: Harvey, IL

DIRECTION: South

PHOTOGRAPHER: S. Skare

SUBJECT: START collecting drum sample D-01.



SITE: Weltmeyer Acid Spill

DATE: October 23, 1997

TIME: 1421 Hours

LOCATION: Harvey, IL

DIRECTION: East

PHOTOGRAPHER: S. Skare

SUBJECT: View of tanker T-04.



SITE: Weltmeyer Acid Spill
LOCATION: Harvey, IL
SUBJECT: View of tanker T-03.

DATE: October 23, 1997
DIRECTION: East

TIME: 1422 Hours
PHOTOGRAPHER: S. Skare



SITE: Weltmeyer Acid Spill
LOCATION: Harvey, IL
SUBJECT: View of tanker T-01; note the "nonhazardous material" label.

DATE: October 23, 1997
DIRECTION: Northeast

TIME: 1428 Hours
PHOTOGRAPHER: S. Skare



SITE: Weltmeyer Acid Spill

DATE: October 23, 1997

TIME: 1429 Hours

LOCATION: Harvey, IL

DIRECTION: North

PHOTOGRAPHER: S. Skare

SUBJECT: View of tanker T-01; note the "Licensed Special Waste Hauler" label.



SITE: Weltmeyer Acid Spill

DATE: October 23, 1997

TIME: 1430 Hours

LOCATION: Harvey, IL

DIRECTION: North

PHOTOGRAPHER: S. Skare

SUBJECT: View of tanker T-02.



SITE: Weltmeyer Acid Spill

DATE: October 23, 1997

TIME: 1431 Hours

LOCATION: Harvey, IL

DIRECTION: Southwest

PHOTOGRAPHER: S. Skare

SUBJECT: View of the front of Weltmeyer Garage.



SITE: Weltmeyer Acid Spill

DATE: October 24, 1997

TIME: 1705 Hours

LOCATION: Harvey, IL

DIRECTION: Southwest

PHOTOGRAPHER: S. Skare

SUBJECT: ERCS loading contaminated soil into rolloff box.



SITE: Weltmeyer Acid Spill

DATE: October 24, 1997

TIME: 1706 Hours

LOCATION: Harvey, IL

DIRECTION: Southeast

PHOTOGRAPHER: S. Skare

SUBJECT: ERCS using Bobcat to excavate soil from the spill area.



SITE: Weltmeyer Acid Spill

DATE: October 24, 1997

TIME: 1720 Hours

LOCATION: Harvey, IL

DIRECTION: Southeast

PHOTOGRAPHER: S. Skare

SUBJECT: Open manhole in side of tanker T-03.

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Attachment C

Validated Analytical Results

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33 North Dearborn Street
Chicago, Illinois 60602
Tel. 312/578-9243, Fax: 312/578-9345

M E M O R A N D U M

DATE: November 21, 1997

TO: Steve Skare, START Project Manager, E & E, Chicago, Illinois

FROM: David Hendren, START Analytical Services Manager, E & E, Chicago, Illinois

THROUGH: Mary Jane Ripp, START Assistant Program Manager, E & E, Chicago, Illinois

SUBJECT: Inorganic Data Quality Review for Resource Conservation and Recovery Act (RCRA) Metals, Acid Spill, Harvey, Cook County, Illinois

REFERENCE: Project TDD S05-9710-010 Analytical TDD S05-9710-807
Project PAN 7C1001SIXX Analytical PAN 7CAG01TAXX

The data quality assurance (QA) review of five drum/tanker samples and two soil samples collected from the Acid Spill site is complete. The samples were collected on October 23, 1997, by the Superfund Technical Assessment and Response Team (START) contractor, Ecology and Environment, Inc. (E & E). The samples were submitted to NET Laboratories, Bartlett, Illinois. The laboratory analyses were performed according to the United States Environmental Protection Agency (U.S. EPA) Solid Waste 846 Methods 6010 and 7000.

Sample Identification

<u>START Identification No.</u>	<u>Laboratory Identification No.</u>
T-01	440284
T-03	440385
T-04	440286
S-01	440287
S-02	440288
S-03	440289
D-01	440290

Acid Spill
Project TDD S05-9710-010
Analytical TDD S05-9710-807
RCRA Metals
Page 2

Data Qualifications:

I. Sample Holding Time: Acceptable

The samples were collected on October 23, 1997, and analyzed on October 30 and 31, 1997. Analysis for mercury was performed on October 30, 1997. This is within the 6-month (28 days for mercury) holding time limit.

II. Calibration:

• Initial Calibration: Acceptable

Recoveries for the initial calibration verification were within 90 to 110% (80 to 120% for mercury), as required. The correlation coefficient for mercury exceeded 0.995.

• Continuing Calibration: Acceptable

All analytes included in the continuing calibration verification standard were within 90 to 110% (80 to 120% for mercury), as required.

III. Blanks: Acceptable

Calibration and preparation blanks were analyzed with each analytical batch. No target analytes were detected in the blanks.

IV. Overall Assessment of Data For Use: Acceptable

The overall usefulness of the data is based on criteria for QA Level II as outlined in the Office of Solid Waste and Emergency Response (OSWER) Directive 9360.4-01 (April 1990) Data Validation Procedures, Section 3.0, Metallic Inorganic Parameters. Based upon the information provided, the data are acceptable for use.



ecology and environment, inc.

International Specialists in the Environment

33 North Dearborn Street
Chicago, Illinois 60602
Tel. 312/578-9243, Fax: 312/578-9345

M E M O R A N D U M

DATE: November 21, 1997

TO: Steve Skare, START Project Manager, E & E, Chicago, Illinois

FROM: David Hendren, START Analytical Services Manager, E & E, Chicago, Illinois

THROUGH: Mary Jane Ripp, START Assistant Program Manager, E & E, Chicago, Illinois

SUBJECT: Organic Data Quality Review for Volatile Organic Compounds (VOCs), Acid Spill, Harvey, Cook County, Illinois

REFERENCE: Project TDD S05-9710-010 Analytical TDD S05-9710-807
Project PAN 7C1001SIXX Analytical PAN 7CAG01TAXX

The data quality assurance (QA) review of one drum sample collected from the Acid Spill site is complete. The sample was collected on October 23, 1997, by the Superfund Technical Assessment and Response Team (START) contractor, Ecology and Environment, Inc. (E & E). The sample was submitted to NET Laboratories, Bartlett, Illinois. The laboratory analysis was performed according to the United States Environmental Protection Agency (U.S. EPA) Solid Waste 846 Method 8260.

Sample Identification

START
Identification No.

D-01

Laboratory
Identification No.

440290

Data Qualifications:

I. Sample Holding Time: Acceptable

The samples were collected on October 23, 1997, and analyzed on October 27, 1997. This is within the 14-day holding time limit.

Acid Spill
Project TDD S05-9710-010
Analytical TDD S05-9710-807
VOCs
Page 2

II. Gas Chromatography/Mass Spectrometry (GC/MS) Tuning:
Acceptable

GC/MS tuning to meet ion abundance criteria using bromofluorobenzene (BFB) were acceptable and sample was analyzed within 12 hours of BFB tuning.

III. Calibrations:

• Initial Calibration: Qualified

A five-point initial calibration was performed prior to analysis. All average response factors were greater than 0.05 except methyl ethyl ketone; therefore, the nondetect value for this compound has been flagged "R", as required. The percent relative standard deviations (%RSDs) between response factors were less than 30% for all detected target compounds.

• Continuing Calibration: Acceptable

The percent differences of the response factors were less than 25%, as required for detected target compounds.

IV. Blank: Acceptable

A method blank was analyzed with the sample. No target compounds or contaminants were detected in the blank.

V. Internal Standards: Acceptable

The areas of the internal standards in the sample were within -50% to +100% of the associated calibration check standard. The retention times of the internal standards were within the 30-second control limit.

VI. Compound Identification: Acceptable

The mass spectra and retention times of the detected compounds matched those of the standards.

VII. Additional QC Checks: Acceptable

The recoveries of the surrogates used in the sample and blank were within laboratory-established guidelines.

) Acid Spill
Project TDD S05-9710-010
Analytical TDD S05-9710-807
VOCs
Page 3

VIII. Overall Assessment of Data for Use: Acceptable

The overall usefulness of the data is based on criteria for QA Level II as outlined in the Office of Solid Waste and Emergency Response (OSWER) Directive 9360.4-01 (April 1990), Data Validation Procedures, Section 5.0, VOAs By GC/MS analysis. Based upon the information provided, the data are acceptable for use, with the above-stated qualifications.

Data Qualifiers and Definitions:

R - The sample results are rejected (analyte may or may not be present) due to gross deficiencies in quality control criteria. Any reported value is unusable. Resampling and/or reanalysis is necessary for verification.



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Chicago, Illinois 60602
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M E M O R A N D U M

DATE: November 21, 1997

TO: Steve Skare, START Project Manager, E & E, Chicago, Illinois

FROM: David Hendren, START Analytical Services Manager, E & E, Chicago, Illinois

THROUGH: Mary Jane Ripp, START Assistant Program Manager, E & E, Chicago, Illinois

SUBJECT: Data Quality Review for Flash Point and pH, Acid Spill, Harvey, Cook County, Illinois

REFERENCE: Project TDD S05-9710-010 Analytical TDD S05-9710-807
Project PAN 7C1001SIXX Analytical PAN 7CAG01TAXX

The data quality assurance (QA) review of five tanker/drum samples and two soil samples collected from the Acid Spill site is complete. The samples were collected on October 23, 1997, by the Superfund Technical Assessment and Response Team (START) contractor, Ecology and Environment, Inc. (E & E). The samples were submitted to NET Laboratories, Bartlett, Illinois. The laboratory analyses were performed according to the United States Environmental Protection Agency (U.S. EPA) Solid Waste 846 Methods 1010 and 9045. (Analysis of flash point was performed only on D-01.)

Sample Identification

<u>START</u> <u>Identification No.</u>	<u>Laboratory</u> <u>Identification No.</u>
T-01	440384
T-03	440385
T-04	440286
S-01	440287
S-02	440288
S-03	440289
D-01	440290

Acid Spill
Project TDD S05-9710-010
Analytical TDD S05-9710-807
Flash Point, pH
Page 2

Data Qualifications:

I. Sample Holding Time: Acceptable

The samples were collected on October 23, 1997, and analyzed on October 29, 1997. The Office of Solid Waste and Emergency Response (OSWER) Directive 9360.4-01 (April 1990) does not specify holding times for these parameters.

II. Calibrations: Acceptable

The calibrations for flash point and pH were verified before sample analyses. The calibration for flash point was verified using xylene and the calibration for pH was verified following analyses of three standard solutions.

III. Overall Assessment of Data for Use: Acceptable

The overall usefulness of the data is based on criteria for QA Level II as outlined in OSWER Data Validation Procedures, Section 9.0, Generic Data Validation Procedures. Based upon the information provided, the data are acceptable for use.



NATIONAL
ENVIRONMENTAL
TESTING, INC.

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850 West Bartlett Rd.
Bartlett, IL 60103
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Fax: (630) 289-5445

Rockford Division
3548 35th Street
Rockford, IL 61109
Tel: (815) 874-2171
Fax: (815) 874-5622
(800) 807-2877

ANALYTICAL REPORT

Mr. Dave Hendren
ECOLOGY & ENVIRONMENT, INC
33 N. Dearborn
Suite 900
Chicago, IL 60602

11/01/1997

Sample No. : 440284

NET Job No.: 97.12764

Sample Description: Tanker #1; T-01
Analytical; S05-9710-807

Date Taken: 10/23/1997
Time Taken: 12:15
IEPA Cert. No. 100221

Date Received: 10/24/1997
Time Received: 15:20
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Analytical
				PQL		Prep/Run	Method
pH, Non-Aqueous	1.65	units	10/29/1997	0.10	ttl	26	9045B (1)
Arsenic, GFAA	<0.50	ug/g	10/31/1997	0.50	mhp	62 413	7060 (1)
Barium, ICP	<1.0	ug/g	10/30/1997	1.0	jtt	875 1571	6010 (1)
Cadmium, ICP	3.8	ug/g	10/30/1997	0.50	jtt	875 1556	6010 (1)
Chromium, ICP	21	ug/g	10/30/1997	2.0	jtt	875 1538	6010 (1)
Lead, ICP	<4.0	ug/g	10/30/1997	4.0	jtt	875 1764	6010 (1)
Mercury, CVAA	<0.040	ug/g	10/30/1997	0.040	sep	547 657	7471A (9)
Selenium, GFAA	<0.25	ug/g	10/31/1997	0.25	mhp	62 348	7740 (1)
Silver, AA	<2.0	MX ug/g	10/31/1997	2.0	sep	363 465	7760 (1)

MX : Dilution required due to sample matrix; analyte is not detected.



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ANALYTICAL REPORT

Mr. Dave Hendren
ECOLOGY & ENVIRONMENT, INC
33 N. Dearborn
Suite 900
Chicago, IL 60602

11/01/1997

Sample No. : 440285

NET Job No.: 97.12764

Sample Description: Tanker #3; T-03
Analytical; S05-9710-807

Date Taken: 10/23/1997
Time Taken: 12:40
IEPA Cert. No. 100221

Date Received: 10/24/1997
Time Received: 15:20
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	1.83	units	10/29/1997	0.10	tcl	26	9045B (1)
Arsenic, GFAA	<0.50	ug/g	10/30/1997	0.50	mhp	62 413	7060 (1)
Barium, ICP	<1.0	ug/g	10/30/1997	1.0	jtt	875 1571	6010 (1)
Cadmium, ICP	3.8	ug/g	10/30/1997	0.50	jtt	875 1556	6010 (1)
Chromium, ICP	13	ug/g	10/30/1997	2.0	jtt	875 1538	6010 (1)
Lead, ICP	8.8	ug/g	10/30/1997	4.0	jtt	875 1764	6010 (1)
Mercury, CVAA	<0.040	ug/g	10/30/1997	0.040	sep	547 657	7471A (9)
Selenium, GFAA	<0.25	ug/g	10/30/1997	0.25	mhp	62 348	7740 (1)
Silver, AA	<2.0	MX ug/g	10/30/1997	2.0	sep	363 464	7760 (1)

MX : Dilution required due to sample matrix; analyte is not detected.



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ANALYTICAL REPORT

Mr. Dave Hendren
ECOLOGY & ENVIRONMENT, INC
33 N. Dearborn
Suite 900
Chicago, IL 60602

11/01/1997

Sample No. : 440286

NET Job No.: 97.12764

Sample Description: Tanker #4; T-04
Analytical; S05-9710-807

Date Taken: 10/23/1997
Time Taken: 12:50
IEPA Cert. No. 100221

Date Received: 10/24/1997
Time Received: 15:20
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	1.72	units	10/29/1997	0.10	ttl	26	9045B (1)
Arsenic, GFAA	<0.50	ug/g	10/30/1997	0.50	mhp	62 413	7060 (1)
Barium, ICP	<1.0	ug/g	10/30/1997	1.0	jtt	875 1571	6010 (1)
Cadmium, ICP	6.6	ug/g	10/30/1997	0.50	jtt	875 1556	6010 (1)
Chromium, ICP	19	ug/g	10/30/1997	2.0	jtt	875 1538	6010 (1)
Lead, ICP	<4.0	ug/g	10/30/1997	4.0	jtt	875 1764	6010 (1)
Mercury, CVAA	<0.040	ug/g	10/30/1997	0.040	sep	547 657	7471A (9)
Selenium, GFAA	<0.25	ug/g	10/30/1997	0.25	mhp	62 348	7740 (1)
Silver, AA	<2.0	MX ug/g	10/30/1997	2.0	sep	363 464	7760 (1)

MX : Dilution required due to sample matrix; analyte is not detected.



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ANALYTICAL REPORT

Mr. Dave Hendren
ECOLOGY & ENVIRONMENT, INC
33 N. Dearborn
Suite 900
Chicago, IL 60602

11/01/1997

Sample No. : 440287

NET Job No.: 97.12764

Sample Description: Soil East of Tanker #3; S-01
Analytical; S05-9710-807

Date Taken: 10/23/1997
Time Taken: 13:15
IEPA Cert. No. 100221

Date Received: 10/24/1997
Time Received: 15:20
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Analytical Method
pH, Non-Aqueous	3.96	units	10/29/1997	0.10	tcl	26	9045B (1)
Arsenic, GFAA	4.6	M+	10/30/1997	0.50	mhp	62 413	7060 (1)
Barium, ICP	68	ug/g	10/30/1997	1.0	jtt	875 1571	6010 (1)
Cadmium, ICP	3.4	ug/g	10/30/1997	0.50	jtt	875 1556	6010 (1)
Chromium, ICP	28	ug/g	10/30/1997	2.0	jtt	875 1538	6010 (1)
Lead, ICP	64	ug/g	10/30/1997	4.0	jtt	875 1764	6010 (1)
Mercury, CVAA	0.054	ug/g	10/30/1997	0.040	sep	547 657	7471A (9)
Selenium, GFAA	0.65	M+	10/30/1997	0.25	mhp	62 348	7740 (1)
Silver, AA	<2.0	ug/g	10/30/1997	2.0	sep	363 464	7760 (1)

M+ : Analyte quantified by MSA due to low spike recovery.



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ANALYTICAL REPORT

Mr. Dave Hendren
ECOLOGY & ENVIRONMENT, INC
33 N. Dearborn
Suite 900
Chicago, IL 60602

11/01/1997

Sample No. : 440288

NET Job No.: 97.12764

Sample Description: Bag Inside E. Garage; S-02
Analytical; S05-9710-807

Date Taken: 10/23/1997
Time Taken: 13:25
IEPA Cert. No. 100221

Date Received: 10/24/1997
Time Received: 15:20
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	2.99	units	10/29/1997	0.10	tcl	26	9045B (1)
Arsenic, GFAA	<0.50	ug/g	10/30/1997	0.50	mhp	62 413	7060 (1)
Barium, ICP	1.7	ug/g	10/30/1997	1.0	jtt	875 1571	6010 (1)
Cadmium, ICP	8.1	ug/g	10/30/1997	0.50	jtt	875 1556	6010 (1)
Chromium, ICP	<2.0	ug/g	10/31/1997	2.0	kdw	875 1539	6010 (1)
Lead, ICP	48	ug/g	10/30/1997	4.0	jtt	875 1764	6010 (1)
Mercury, CVAA	<0.040	ug/g	10/30/1997	0.040	sep	547 657	7471A (9)
Selenium, GFAA	<0.25	ug/g	10/30/1997	0.25	mhp	62 348	7740 (1)
Silver, AA	<2.0	ug/g	10/30/1997	2.0	sep	363 464	7760 (1)



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ANALYTICAL REPORT

Mr. Dave Hendren
ECOLOGY & ENVIRONMENT, INC
33 N. Dearborn
Suite 900
Chicago, IL 60602

11/01/1997

Sample No. : 440289

NET Job No.: 97.12764

Sample Description: Drum Inside W. Garage; S-03
Analytical; S05-9710-807

Date Taken: 10/23/1997
Time Taken: 13:50
IEPA Cert. No. 100221

Date Received: 10/24/1997
Time Received: 15:20
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	2.25	units	10/29/1997	0.10	tcl	26	9045B (1)
Arsenic, GFAA	<0.50	ug/g	10/30/1997	0.50	mhp	62 413	7060 (1)
Barium, ICP	5.2	ug/g	10/30/1997	1.0	jtt	875 1571	6010 (1)
Cadmium, ICP	0.56	ug/g	10/30/1997	0.50	jtt	875 1556	6010 (1)
Chromium, ICP	3.4	ug/g	10/31/1997	2.0	kdw	875 1539	6010 (1)
Lead, ICP	20	ug/g	10/30/1997	4.0	jtt	875 1764	6010 (1)
Mercury, CVAA	<0.040	ug/g	10/30/1997	0.040	sep	547 657	7471A (9)
Selenium, GFAA	<0.25	ug/g	10/30/1997	0.25	mhp	62 348	7740 (1)
Silver, AA	<2.0	ug/g	10/30/1997	2.0	sep	363 464	7760 (1)



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ANALYTICAL REPORT

Mr. Dave Hendren
ECOLOGY & ENVIRONMENT, INC
33 N. Dearborn
Suite 900
Chicago, IL 60602

11/01/1997

Sample No. : 440290

NET Job No.: 97.12764

Sample Description: Drum Inside W. Garage; D-01
Analytical; S05-9710-807

Date Taken: 10/23/1997
Time Taken: 14:10
IEPA Cert. No. 100221

Date Received: 10/24/1997
Time Received: 15:20
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	5.22	units	10/29/1997	0.10	tcl	26	9045B (1)
Arsenic, GFAA	<0.50	ug/g	10/30/1997	0.50	mhp	62 413	7060 (1)
Barium, ICP	<1.0	ug/g	10/30/1997	1.0	jtt	875 1571	6010 (1)
Cadmium, ICP	<0.50	ug/g	10/30/1997	0.50	jtt	875 1556	6010 (1)
Chromium, ICP	<2.0	ug/g	10/30/1997	2.0	jtt	875 1538	6010 (1)
Lead, ICP	<4.0	ug/g	10/30/1997	4.0	jtt	875 1764	6010 (1)
Mercury, CVA	<0.040	ug/g	10/30/1997	0.040	sep	547 657	7471A (9)
Selenium, GFAA	<0.25	ug/g	10/30/1997	0.25	mhp	62 348	7740 (1)
Silver, AA	<2.0	MX ug/g	10/30/1997	2.0	sep	363 464	7760 (1)
VOLATILES - 8260 NonAqueous							
Acetone	<23,000	ug/Kg	10/27/1997	100	11j	258	8260A (9)
Acrylonitrile	<12,000	ug/Kg	10/27/1997	50	11j	258	8260A (9)
Benzene	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
Bromobenzene	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
Bromochloromethane	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
Bromodichloromethane	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
Bromoform	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
Bromomethane	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
n-Butylbenzene	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
sec-Butylbenzene	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
tert-Butylbenzene	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
Carbon tetrachloride	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
Chlorobenzene	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
Chlorodibromomethane	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
Chloroethane	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
Chloroform	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)

VOC analysis performed at a 230x dilution due to sample matrix.

) MX : Dilution required due to sample matrix; analyte is not detected.



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ANALYTICAL REPORT

Mr. Dave Hendren
ECOLOGY & ENVIRONMENT, INC
33 N. Dearborn
Suite 900
Chicago, IL 60602

11/01/1997

Sample No. : 440290

NET Job No.: 97.12764

Sample Description: Drum Inside W. Garage; D-01
Analytical; S05-9710-807

Date Taken: 10/23/1997
Time Taken: 14:10
IEPA Cert. No. 100221

Date Received: 10/24/1997
Time Received: 15:20
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Chloromethane	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
2-Chlorotoluene	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
4-Chlorotoluene	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
1,2-Dibromo-3-chloropropane	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
1,2-Dibromoethane (EDB)	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
Dibromomethane	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
1,2-Dichlorobenzene	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
1,3-Dichlorobenzene	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
1,4-Dichlorobenzene	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
Dichlorodifluoromethane	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
1,1-Dichloroethane	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
1,2-Dichloroethane	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
1,1-Dichloroethene	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
cis-1,2-Dichloroethene	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
trans-1,2-Dichloroethene	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
1,2-Dichloropropane	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
1,3-Dichloropropane	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
2,2-Dichloropropane	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
1,1-Dichloropropene	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
cis-1,3-Dichloropropene	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
trans-1,3-Dichloropropene	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
Ethylbenzene	1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
2-Hexanone	<23,000	ug/Kg	10/27/1997	100	11j	258	8260A (9)
Hexachlorobutadiene	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
Iodomethane	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
Isopropylbenzene	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
p-Isopropyltoluene	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)

VOC analysis performed at a 230x dilution due to sample matrix.



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11/01/1997

Sample No. : 440290

NET Job No.: 97.12764

Sample Description: Drum Inside W. Garage; D-01
Analytical; S05-9710-807

Date Taken: 10/23/1997
Time Taken: 14:10
IEPA Cert. No. 100221

Date Received: 10/24/1997
Time Received: 15:20
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Methyl Ethyl Ketone	<23,000	ug/Kg	10/27/1997	100	11j	258	8260A (9)
Methyl Isobutyl Ketone	<23,000	ug/Kg	10/27/1997	100	11j	258	8260A (9)
Methylene Chloride	<12,000	ug/Kg	10/27/1997	50	11j	258	8260A (9)
Methyl-tert-butyl ether	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
Napthalene	110,000	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
n-propylbenzene	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
Styrene	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
1,1,1,2-Tetrachloroethane	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
1,1,2,2-Tetrachloroethane	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
Tetrachloroethene	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
Toluene	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
1,2,3-Trichlorobenzene	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
1,2,4-Trichlorobenzene	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
1,1,1-Trichloroethane	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
1,1,2-Trichloroethane	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
Trichloroethene	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
Trichlorofluoromethane	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
1,2,3-Trichloropropane	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
1,2,4-Trimethylbenzene	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
1,3,5-Trimethylbenzene	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
Vinyl chloride	<1,200	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
Xylenes	7,000	ug/Kg	10/27/1997	5.0	11j	258	8260A (9)
Surr: Dibromofluoromethane	104.6	%	10/27/1997	80-120	11j	258	8260A (9)
Surr: Toluene-d8	86.2	%	10/27/1997	81-117	11j	258	8260A (9)
Surr: 4-Bromofluorobenzene	98.6	%	10/27/1997	74-121	11j	258	8260A (9)
Ignitability (Flash Point)	>212	deg F	10/29/1997	>212	jrs	659	1010 (1)

VOC analysis performed at a 230x dilution due to sample matrix.

Attachment D

Waste Disposal Table

Table 1

**WASTE DISPOSAL TABLE
ACID SPILL SITE
a.k.a. WELTMEYER ACID SPILL SITE
HARVEY, COOK COUNTY, ILLINOIS**

Wastestream	Medium	Quantity	Treatment	Disposal
Hazardous waste liquid	Acid from tankers	12,000 gallons	Neutralization	Heritage Environmental, Indianapolis, Indiana
Nonhazardous waste solid	Drums of grease	55 gallons	NA	Heritage Environmental, Lemont, Illinois
Hazardous waste liquid	Drums of paint	110 gallons	NA	Heritage Environmental, Lemont, Illinois
Hazardous waste liquid/solid	Aerosols and small containers	2 lab packs	NA	Heritage Environmental, Lemont, Illinois
Nonhazardous waste solid	Soil	10 cubic yards	Landfill	Heritage Environmental, Indianapolis, Indiana
Hazardous waste Solid	Bags of sulfamic acid	4 cubic yards	NA	Heritage Environmental, Lemont, Illinois
Hazardous waste solid	Metal from tankers	60 cubic yards	Landfill	NA

Key:

NA = No information available.

Source: Ecology and Environment, Inc., 1998.